

ProteinFind[®] Anti-Cytochrome C Mouse Monoclonal Antibody

Please read the datasheet carefully prior to use.

Cat. No. HA103

Storage: PBS(pH 7.4), 0.02% Sodium Azide, 50% Glycerol; at -20°C for two years, avoid repeated freezing and thawing.

Description

Cytochrome C is an electron transfer protein located in the mitochondrial membrane space and is an essential component of the cell's electron transfer chain. When the cell is stimulated by the apoptosis signal, Cytochrome C is released from the mitochondria to the cytoplasm, accompanied by a series of changes in membrane potential, osmotic pressure and ultrastructure, promoting the activation of apoptotic caspases required for cell apoptosis.

Species reactivity

Human, mouse, rats, guinea pigs, hamsters and chlorocebus sabaeus(Species reactivity is based on WB experiment)

Isotype: Mouse IgG2a

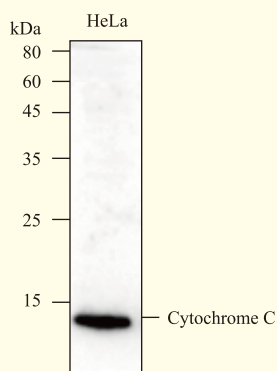
Immunogen

- Recombinant human Cytochrome C full-length protein
- Entrez Gene ID: 54205
- UniProt ID: P99999

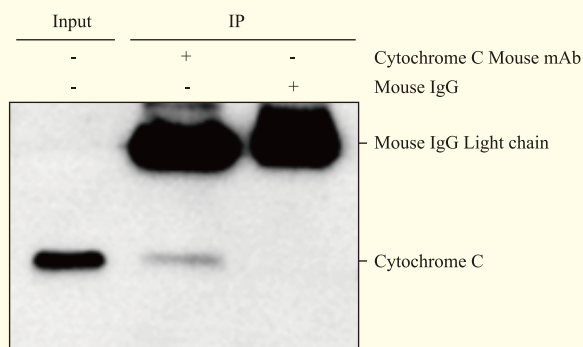
Applications and Suggested Dilution

- Western Blot: 1:1000-5000 dilution.
- IP: 1:100 dilution.
- IF: 1:100-200 dilution.
- FC: 1:100 dilution.
- IHC: 1:100-500 dilution(use Tris-EDTA for retrieval).

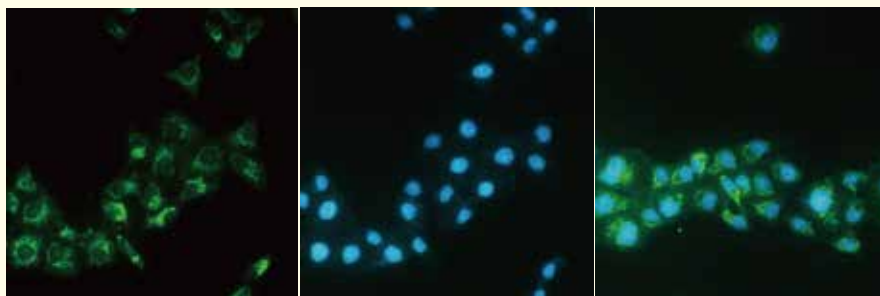
Positive control cell line: HeLa cells



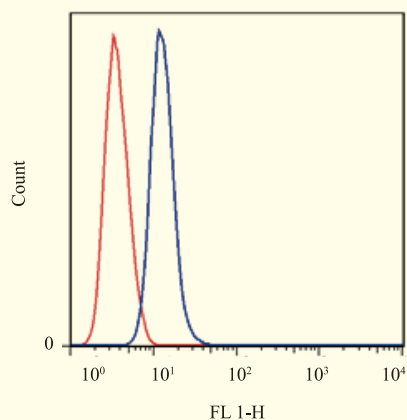
WB: *ProteinFind*[®] Anti-Cytochrome C Mouse Monoclonal Antibody was used to detect Cytochrome C protein expression in HeLa cells
Primary antibody dilution factor: 1:1000
Predicted molecular weight: 14 kDa



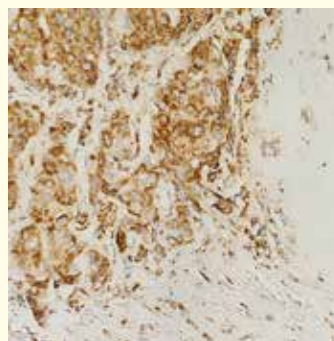
IP: Detection result of *ProteinFind*[®] Anti-Cytochrome C Mouse Monoclonal Antibody for HeLa cell lysates.
The first lane shows 5% Input. The second lane showed the result detected by *ProteinFind*[®] Anti-Cytochrome C Mouse Monoclonal Antibody. The third lane is mouse IgG negative control.
Primary antibody dilution factor: 1:100



ProteinFind[®] Anti-Cytochrome C Mouse Monoclonal Antibody(green) was used to detect the location of endogenous Cytochrome C in HeLa cells
Hoechst is used to stain the nucleus(blue)
Primary antibody dilution factor: 1:100



FC test result with *ProteinFind*[®] Anti-Cytochrome C Mouse Monoclonal Antibody(blue) on HeLa cells.
The negative control is Mouse IgG(red)
Primary antibody dilution factor: 1:100



IHC: Detection result with *ProteinFind*[®] Anti-Cytochrome C Mouse Monoclonal Antibody for human breast cancer
Antigen Retrieval Reagent: Tris-EDTA(pH 9.0)
Primary antibody dilution factor: 1:1000

Reference

- [1]. Li K, Li Y, Shelton JM, Richardson JA, Spencer E, Chen ZJ, *et al.* Cytochrome c Deficiency Causes Embryonic Lethality and Attenuates Stress-Induced Apoptosis[J]. *Cell*. 2000, 101 (4): 389-99.
- [2]. Heiskanen KM, Bhat MB, Wang HW, Ma, Nieminen AL. Mitochondrial depolarization accompanies cytochrome c release during apoptosis in PC6 cells[J]. *Journal of Biological Chemistry*. 1999, 274 (9): 5654-8.
- [3]. Liu X, Kim CN, Yang J, Jemmerson R, Wang X. Induction of apoptotic program in cell-free extracts: requirement for dATP and cytochrome c[J]. *Cell*. 1996, 86 (1): 147-57.

FOR RESEARCH USE ONLY